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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-12-07-31** **Date: 07-09-2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP,
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vplayout in ward no 9 Vidyaranyapura 2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout'in ward no 9 vidyaranyapura, 3)Improvements to roads and Drains Sampige road to Marammatemple in ward no 09Vidyaranyapura ,4)Improvements to road and Drains at Gurusharshan layout in wardd no 09Vidyaranyapura,
Agency	:	Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/90/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-09-2018
Sample ID No	:	2018-12-07-31 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	05-09-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.46	_
2	Finess by Air permeablity method (m^2/kg,Min)	275.8	225m^2/kg, Min
3	Density (gm/cc)	3.15	_
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-12-07-31** **Date: 03-10-2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vplayout in ward no 9 Vidyaranyapura 2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9 vidyaranyapura, 3)Improvements to roads and Drains Sampige road to Marammatemple in ward no 09Vidyaranyapura ,4)Improvements to road and Drains at Gurusharshan layout in wardd no 09Vidyaranyapura,
Agency	:	Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/90/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-09-2018
Sample ID No	:	2018-12-07-31 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	05-09-2018
Environmental Conditions during test	:	Temperature: 26˚C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-12-07-31** **Date: 07-09-2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vplayout in ward no 9 Vidyaranyapura 2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9 vidyaranyapura, 3)Improvements to roads and Drains Sampige road to Marammatemple in ward no 09Vidyaranyapura ,4)Improvements to road and Drains at Gurusharshan layout in wardd no 09Vidyaranyapura,
Agency	:	Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/90/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	04-09-2018
Sample ID No	:	2018-12-07-31 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	04-09-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	234	234	1.6	98.4	90-100
3	20 mm	5334	5568	37.1	62.9	30-70
4	10 mm	4788	10356	69.0	31.0	10-35
5	4.75 mm	4354	14710	98.1	1.9	0-5
6	Pan	290	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-12-07-31** **Date: 07-09-2018**

Sample ID No : 2018-12-07-31 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.68	_
4	Bulk Density(Loose) (Kg/l)	1.55	_
5	Bulk Density(Compacted) (Kg/l)	1.59	_
6	Water Absorption(%)	0.22	_

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Quality Manager

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-12-07-31** **Date: 06-09-2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vplayout in ward no 9 Vidyaranyapura 2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9 vidyaranyapura, 3)Improvements to roads and Drains Sampige road to Marammatemple in ward no 09Vidyaranyapura ,4)Improvements to road and Drains at Gurusharshan layout in wardd no 09Vidyaranyapura,
Agency	:	Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092
Customer Reference	:	BBMP/EE/BTP/WO/90/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-09-2018
Sample ID No	:	2018-12-07-31 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	04-09-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2675	2920	58.4	41.6	25-55
4	4.75 mm	1798	4718	94.4	5.6	0-10
5	Pan	282	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-12-07-31** **Date: 06-09-2018**

Sample ID No : 2018-12-07-31 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.1	
3	Specific Gravity	2.66	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.57	–
6	Water Absorption(%)	0.25	–
7	Aggregate crushing Value(%)	22.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	21.9	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Date: 06-09-2018

Lab ID	:	**CP-2018-12-07-31**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vplayout in ward no 9 Vidyaranyapura 2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9 vidyaranyapura, 3)Improvements to roads and Drains Sampige road to Marammatemple in ward no 09Vidyaranyapura ,4)Improvements to road and Drains at Gurusharshan layout in wardd no 09Vidyaranyapura,
Agency	:	Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/90/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-09-2018
Sample ID No	:	2018-12-07-31 /03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	04-09-2018
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	82	82	8.2	91.8	90-100	90-100	90-100	95-100
3	2.36 mm	165	247	24.7	75.3	60-95	75-100	85-100	95-100
4	1.18 mm	177	424	42.4	57.6	30-70	55-90	75-100	90-100
5	600 micron	182	606	60.6	39.4	15-34	35-59	60-79	80-100
6	300 micron	177	783	78.3	21.7	5-20	8-30	12-40	15-50
7	150 micron	134	917	91.7	8.3	0-10	0-10	0-10	0-15
8	Pan	83	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-12-07-31** **Date: 06-09-2018**

Sample ID No : 2018-12-07-31 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.85	–
2	Specific Gravity	2.58	–
3	Material finer than 75 micron(%)	4.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Quality Manager

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Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID : **CP-2018-12-07-31** **Date: 06-09-2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vplayout in ward no 9 Vidyaranyapura 2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9 vidyaranyapura, 3)Improvements to roads and Drains Sampige road to Marammatemple in ward no 09Vidyaranyapura ,4)Improvements to road and Drains at Gurusharshan layout in wardd no 09Vidyaranyapura,

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/90/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-09-2018

Sample ID No : 2018-12-07-31 /04

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 05-09-2018

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	Fe500	8	0.392	538	644	20.0%	Satisfactory
2	Sunvik	Fe500	Fe500	10	0.615	545	658	20.0%	Satisfactory
3	Sunvik	Fe500	Fe500	12	0.884	562	671	19.0%	Satisfactory

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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Date: 08-09-2018

Lab ID	:	**CP-2018-12-07-31**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vplayout in ward no 9 Vidyaranyapura 2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9 vidyaranyapura, 3)Improvements to roads and Drains Sampige road to Marammatemple in ward no 09Vidyaranyapura ,4)Improvements to road and Drains at Gurusharshan layout in wardd no 09Vidyaranyapura,
Agency	:	Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/90/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-09-2018
Sample ID No	:	2018-12-07-31 /07
Sample Type/Size	:	Solid concrete blocks size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	05-09-2018

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	403	153	202	12455	24.960	2004.0	2003.9	Not less than 1800Kg/m^3
2	402	152	203	12404	24.780	1997.7		
3	402	152	202	12343	24.810	2010.0		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	25.460	24.290	4.82	5.08	Shall not be more than 10% by mass
2	25.990	24.780	4.88		
3	25.670	24.320	5.55		

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Lab ID : **CP-2018-12-07-31**

Date: 08-09-2018

Sample ID No : **2018-12-07-31 /07**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	403	151	202	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	401	149	201	
3	402	150	203	
4	401	152	201	
5	403	150	203	
6	401	149	200	
7	402	151	201	
8	403	149	203	
9	401	150	201	
10	402	150	203	
11	401	150	200	
12	402	152	199	
13	401	149	203	
14	403	150	201	
15	401	149	202	
16	402	151	201	
17	401	149	203	
18	402	150	201	
19	401	150	200	
20	400	151	201	
Average of 20	**402**	**150**	**201**	

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Date: 08-09-2018

Lab ID : CP-2018-12-07-31

Sample ID No : 2018-12-07-31 /07

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	403	151	60853	358.8	5.9	5.9
2	401	149	59749	353.6	5.9	
3	402	150	60300	379.4	6.3	
4	401	152	60952	353.6	5.8	
5	403	150	60450	356.7	5.9	
6	401	149	59749	354.5	5.9	
7	402	151	60702	358.7	5.9	
8	403	149	60047	337.1	5.6	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2018-12-07-31** **Date: 09-09-2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vplayout in ward no 9 Vidyaranyapura 2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9 vidyaranyapura, 3)Improvements to roads and Drains Sampige road to Marammatemple in ward no 09Vidyaranyapura ,4)Improvements to road and Drains at Gurusharshan layout in wardd no 09Vidyaranyapura,

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/90/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-09-2018

Sample ID No : 2018-12-07-31 /06

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 05/09/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.51	250.48	1.116	31570	80.9	2.6	2.4	3.0
2	Cover Slab-2	200.49	250.52	1.122	31564	82.3	2.6	2.4	3.0
3	Cover Slab-3	200.50	250.46	1.118	31567	81.5	2.6	2.4	3.0

Note:

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Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2018-12-07-31** **Date: 10-09-2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vplayout in ward no 9 Vidyaranyapura 2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9 vidyaranyapura, 3)Improvements to roads and Drains Sampige road to Marammatemple in ward no 09Vidyaranyapura ,4)Improvements to road and Drains at Gurusharshan layout in wardd no 09Vidyaranyapura,

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/90/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-09-2018

Sample ID No : 2018-12-07-31 /06

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 05/09/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE KERB STONE

Date: 10-09-2018

Lab ID	:	**CP-2018-12-07-31**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vplayout in ward no 9 Vidyaranyapura 2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9 vidyaranyapura, 3)Improvements to roads and Drains Sampige road to Marammatemple in ward no 09Vidyaranyapura ,4)Improvements to road and Drains at Gurusharshan layout in wardd no 09Vidyaranyapura,
Agency	:	Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/90/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-09-2018
Sample ID No	:	2018-12-07-31 /04
Sample Type /Size	:	CC Kerb Stone/ 450*165*400mm
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	05/09/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.04	165.46	2.864	7859	142.1	18.1	18.1	22.6
2	B	100.03	165.48	2.793	7857	145.2	18.5	18.5	23.1
3	C	100.02	165.52	2.815	7856	145.1	18.5	18.5	23.1

Note:

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Quality Manager

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-RW-2018-12-07-31** **Date: 26-10-18**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vplayout in ward no 9 Vidyaranyapura 2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9 vidyaranyapura, 3)Improvements to roads and Drains Sampige road to Marammatemple in ward no 09Vidyaranyapura ,4)Improvements to road and Drains at Gurusharshan layout in wardd no 09Vidyaranyapura,

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer Reference : BBMP/EE/BTP/WO/90/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-10-18

Sample ID No : 2018-12-07-31/01

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 24-10-18

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

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Quality Manager

PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID : **CP-RW-2018-12-07-31** **Date: 02-11-2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vplayout in ward no 9 Vidyaranyapura 2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9 vidyaranyapura, 3)Improvements to roads and Drains Sampige road to Marammatemple in ward no 09Vidyaranyapura ,4)Improvements to road and Drains at Gurusharshan layout in wardd no 09Vidyaranyapura,

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer Reference : BBMP/EE/BTP/WO/90/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-10-2018

Sample ID No : 2018-12-07-31/01

Type of Mix : BC (Bituminous Concrete)

Date of test : 29-10-2018

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	13.57	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	8.75		
Strength	Aggregate Impact Value	23.19	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.61	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	1.62	Maximum 2%	IS:2386 Part III

Note:-

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 19/09/2018

Lab ID	:	**CP-2018-12-07-31**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vplayout in ward no 9 Vidyaranyapura 2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9 vidyaranyapura, 3)Improvements to roads and Drains Sampige road to Marammatemple in ward no 09Vidyaranyapura ,4)Improvements to road and Drains at Gurusharshan layout in wardd no 09Vidyaranyapura,
Agency	:	Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/90/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-09-2018
Sample ID No	:	2018-12-07-31 /01
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	19/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	12/09/2018	19/09/2018	150.43 X 150.38 X 150.34	22622	8.312	280.5	12.4	12.6
2	PCC	M15	12/09/2018	19/09/2018	150.48 X 150.54 X 150.52	22653	8.331	292.2	12.9	
3	PCC	M15	12/09/2018	19/09/2018	150.46 X 150.51 X 150.50	22646	8.345	280.8	12.4	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 10/10/2018

Lab ID	:	**CP-2018-12-07-31**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vplayout in ward no 9 Vidyaranyapura 2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9 vidyaranyapura, 3)Improvements to roads and Drains Sampige road to Marammatemple in ward no 09Vidyaranyapura ,4)Improvements to road and Drains at Gurusharshan layout in wardd no 09Vidyaranyapura,
Agency	:	Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/90/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-09-2018
Sample ID No	:	2018-12-07-31 /02
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	12/09/2018	10/10/2018	150.51 X 150.34 X 150.48	22628	8.312	398.2	17.6	17.3
2	PCC	M15	12/09/2018	10/10/2018	150.41 X 150.52 X 150.49	22640	8.331	387.1	17.1	
3	PCC	M15	12/09/2018	10/10/2018	150.46 X 150.42 X 150.35	22632	8.345	391.5	17.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 19/09/2018

Lab ID	:	**CP-2018-12-07-31**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vplayout in ward no 9 Vidyaranyapura 2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9 vidyaranyapura, 3)Improvements to roads and Drains Sampige road to Marammatemple in ward no 09Vidyaranyapura ,4)Improvements to road and Drains at Gurusharshan layout in wardd no 09Vidyaranyapura,
Agency	:	Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/90/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-09-2018
Sample ID No	:	2018-12-07-31 /03
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	19/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	12/09/2018	19/09/2018	150.45 X 150.34 X 150.48	22619	8.312	289.5	12.8	12.5
2	PCC	M15	12/09/2018	19/09/2018	150.42 X 150.51 X 150.38	22640	8.331	269.4	11.9	
3	PCC	M15	12/09/2018	19/09/2018	150.32 X 150.44 X 150.45	22614	8.345	287.2	12.7	

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Certificate No.: TC- 5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 10/10/2018

Lab ID	:	**CP-2018-12-07-31**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vplayout in ward no 9 Vidyaranyapura 2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9 vidyaranyapura, 3)Improvements to roads and Drains Sampige road to Marammatemple in ward no 09Vidyaranyapura ,4)Improvements to road and Drains at Gurusharshan layout in wardd no 09Vidyaranyapura,
Agency	:	Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/90/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-09-2018
Sample ID No	:	2018-12-07-31 /04
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	10/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	12/09/2018	10/10/2018	150.34 X 150.38 X 150.42	22608	8.312	397.9	17.6	17.7
2	PCC	M15	12/09/2018	10/10/2018	150.54 X 150.45 X 150.32	22649	8.331	409.9	18.1	
3	PCC	M15	12/09/2018	10/10/2018	150.54 X 150.35 X 150.44	22634	8.345	393.8	17.4	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-31** **Date: 19/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vplayout in ward no 9 Vidyaranyapura 2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9 vidyaranyapura, 3)Improvements to roads and Drains Sampige road to Marammatemple in ward no 09Vidyaranyapura ,4)Improvements to road and Drains at Gurusharshan layout in wardd no 09Vidyaranyapura,

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/90/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-09-2018

Sample ID No : 2018-12-07-31 /05

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	12/09/2018	19/09/2018	150.34 X 150.48 X 150.42	22623	8.312	276.0	12.2	12.1
2	PCC	M15	12/09/2018	19/09/2018	150.51 X 150.38 X 150.32	22634	8.331	278.4	12.3	
3	PCC	M15	12/09/2018	19/09/2018	150.44 X 150.45 X 150.47	22634	8.345	269.3	11.9	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 10/10/2018

Lab ID	:	**CP-2018-12-07-31**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vplayout in ward no 9 Vidyaranyapura 2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9 vidyaranyapura, 3)Improvements to roads and Drains Sampige road to Marammatemple in ward no 09Vidyaranyapura ,4)Improvements to road and Drains at Gurusharshan layout in wardd no 09Vidyaranyapura,
Agency	:	Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/90/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-09-2018
Sample ID No	:	2018-12-07-31 /06
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	10/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	12/09/2018	10/10/2018	150.38 X 150.42 X 150.54	22620	8.312	411.7	18.2	18.2
2	PCC	M15	12/09/2018	10/10/2018	150.45 X 150.32 X 150.54	22616	8.331	416.1	18.4	
3	PCC	M15	12/09/2018	10/10/2018	150.35 X 150.44 X 150.41	22619	8.345	404.9	17.9	

Note:
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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-31** **Date: 19/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vplayout in ward no 9 Vidyaranyapura 2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9 vidyaranyapura, 3)Improvements to roads and Drains Sampige road to Marammatemple in ward no 09Vidyaranyapura ,4)Improvements to road and Drains at Gurusharshan layout in wardd no 09Vidyaranyapura,

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/90/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-09-2018

Sample ID No : 2018-12-07-31 /07

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	12/09/2018	19/09/2018	150.48 X 150.42 X 150.51	22635	8.312	289.7	12.8	12.9
2	PCC	M15	12/09/2018	19/09/2018	150.38 X 150.32 X 150.44	22605	8.331	298.4	13.2	
3	PCC	M15	12/09/2018	19/09/2018	150.45 X 150.47 X 150.34	22638	8.345	285.2	12.6	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-31** **Date: 10/10/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vplayout in ward no 9 Vidyaranyapura 2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9 vidyaranyapura, 3)Improvements to roads and Drains Sampige road to Marammatemple in ward no 09Vidyaranyapura ,4)Improvements to road and Drains at Gurusharshan layout in wardd no 09Vidyaranyapura,

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/90/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-09-2018

Sample ID No : 2018-12-07-31 /08

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	12/09/2018	10/10/2018	150.42 X 150.54 X 150.45	22644	8.312	405.3	17.9	18.2
2	PCC	M15	12/09/2018	10/10/2018	150.32 X 150.54 X 150.35	22629	8.331	416.4	18.4	
3	PCC	M15	12/09/2018	10/10/2018	150.44 X 150.41 X 150.35	22628	8.345	411.8	18.2	

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R KARTHIK RECHAN
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Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-31** **Date: 19/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vplayout in ward no 9 Vidyaranyapura 2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9 vidyaranyapura, 3)Improvements to roads and Drains Sampige road to Marammatemple in ward no 09Vidyaranyapura ,4)Improvements to road and Drains at Gurusharshan layout in wardd no 09Vidyaranyapura,

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/90/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-09-2018

Sample ID No : 2018-12-07-31 /09

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M15	12/09/2018	19/09/2018	150.42 X 150.51 X 150.38	22640	8.312	280.7	12.4	12.5
2	Drain Concrete	M15	12/09/2018	19/09/2018	150.32 X 150.44 X 150.46	22614	8.331	275.9	12.2	
3	Drain Concrete	M15	12/09/2018	19/09/2018	150.47 X 150.34 X 150.43	22622	8.345	289.6	12.8	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-31** **Date: 10/10/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vplayout in ward no 9 Vidyaranyapura 2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9 vidyaranyapura, 3)Improvements to roads and Drains Sampige road to Marammatemple in ward no 09Vidyaranyapura ,4)Improvements to road and Drains at Gurusharshan layout in wardd no 09Vidyaranyapura,

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/90/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-09-2018

Sample ID No : 2018-12-07-31 /10

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	12/09/2018	10/10/2018	150.54 X 150.45 X 150.32	22649	8.312	412.2	18.2	18.2
2	PCC	M15	12/09/2018	10/10/2018	150.54 X 150.35 X 150.44	22634	8.331	405.1	17.9	
3	PCC	M15	12/09/2018	10/10/2018	150.41 X 150.35 X 150.38	22614	8.345	416.1	18.4	

Note:
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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-31** **Date: 22/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vplayout in ward no 9 Vidyaranyapura 2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9 vidyaranyapura, 3)Improvements to roads and Drains Sampige road to Marammatemple in ward no 09Vidyaranyapura ,4)Improvements to road and Drains at Gurusharshan layout in wardd no 09Vidyaranyapura,

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/90/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-09-2018

Sample ID No : 2018-12-07-31 /01

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC	M20	15/09/2018	22/09/2018	150.51 X 150.38 X 150.32	22634	8.312	282.9	12.5	12.4
2	RMC	M20	15/09/2018	22/09/2018	150.44 X 150.46 X 150.48	22635	8.331	267.1	11.8	
3	RMC	M20	15/09/2018	22/09/2018	150.34 X 150.43 X 150.38	22616	8.345	291.7	12.9	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-31** **Date: 13/10/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-3 (Includes 4 Works) 1)Improvements to Roads and Drains at Vplayout in ward no 9 Vidyaranyapura 2)Improvements to Roads and Drains from 1st 2nd and 3rd cross Jai Hanuman layout and Budha Jyothi layout in ward no 9 vidyaranyapura, 3)Improvements to roads and Drains Sampige road to Marammatemple in ward no 09Vidyaranyapura ,4)Improvements to road and Drains at Gurusharshan layout in wardd no 09Vidyaranyapura,

Agency : Alankar K.B #12, MSV Network Road Near Shobha Appartment,Amruthahalli, Sahakaranagara (P) Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/90/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-09-2018

Sample ID No : 2018-12-07-31 /02

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC	M20	15/09/2018	13/10/2018	150.45 X 150.32 X 150.54	22616	8.312	398.0	17.6	17.5
2	RMC	M20	15/09/2018	13/10/2018	150.35 X 150.44 X 150.41	22619	8.331	382.3	16.9	
3	RMC	M20	15/09/2018	13/10/2018	150.35 X 150.38 X 150.46	22610	8.345	409.2	18.1	

Note:
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